EUROPA Installation

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EUROPA Installation

Currently, EUROPA is only available as a source distribution and you will have to build it yourself. This page outlines steps needed to get EUROPA built and running on your system.

Software Requirements

To begin with, you will need the following software installed on your system:

- <u>Jam 2.5</u> An automated build system (*replacement for* make)
- Java 1.5 A platform independent programming language and runtime.
- Optional:
 - ◆ Ant A Java-based build tool. (RECOMMENDED: required for PSUI)
 - ◆ <u>Doxygen</u> An automated documentation generator. (*required only to generate API documentation*)

The following software is also required, but is likely already installed on your system:

- <u>Subversion</u> version control system.
- GCC 3.3+ GNU Compiler Collection.
- <u>Perl</u> A general purpose scripting language, used for some utility scripts in PLASMA. (*not strictly required*)
- <u>SSH (client)</u> A secure replacement for remote shells, cvs will communicate over ssh streams.
- <u>SWIG</u> Tool that allows us to expose C++ interfaces in Java and other languages
- CVS (client) Concurrent Versions System, for acquiring the EUROPA2 source code.

While not currently officially supported EUROPA2 should run on Windows:

• <u>Cygwin</u> - A POSIX environment for Microsoft Windows.

Checkout

Checkout the two EUROPA packages (PlanWorks contains the PlanWorks and PSUI visualization tools, while PLASMA contains the core EUROPA software). In the desired directory, run:

```
svn co https://babelfish.arc.nasa.gov/svn/europa/PlanWorks/trunk/ PlanWorks
svn co https://babelfish.arc.nasa.gov/svn/europa/PLASMA/trunk/ PLASMA
```

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Environment Configuration

The following environment variables are needed to build and run EUROPA (shown here added to ~/.bashrc, assuming that PLASMA was checked out in the /home/tsmith/svn directory):

You may also need to add the 'jam' executable to your path:

```
export PATH=$PATH:/home/tsmith/programs/jam/:. #Add jam to your path
```

Build

To build EUROPA, simply cd to your PLASMA directory, and run:

```
% jam
```

This creates a debug version of EUROPA. For an optimized version, run:

```
% jam -sVARIANTS=OPTIMIZED
```

For more build configuration details and options, see the **Build Configuration** page.

PSUI

Once everything is built in PLASMA, we recommend building PlanWorks as well. To do so, follow these extra steps:

- 1. Copy the PlanWorks/PSUI/test/.ant.psui.properties file into your home directory
- 2. Edit the workspace.dir variable in that file to point to PlanWorks/PSUI/test
- 3. Add \$ANT_HOME to your environment variables. In bash for example:

```
export ANT_HOME=/home/tsmith/eclipse/plugins/org.apache.ant_1.7.0.v200706080842
```

4. Add the ant bin to your path. In bash, add this to the .bashrc file (note that this uses \$ANT_HOME and must be later in your file):

```
export PATH=$PATH:$ANT_HOME/bin:.
```

Troubleshooting

To see if you have the necessary software requirements, in your PLASMA directory, run:

```
% checkreqs
```

If you have any trouble, please **Contact** the EUROPA team.